```
111111111
                                                                   TTTTTTTTTTTTT
                    TITITITITITI
                                                                                    LLL
                    LLL
                                                                   TTTTTTTTTTTTT
                                                                                    LLL
                                             888
888
888
888
                                 888
                                                  RRR
LLL
                       III
                                                              RRR
                                                                         TTT
                                                                                    LLL
                       III
                                 888
                                                  RRR
                                                              RRR
LLL
                                                                         TIT
                                                                                    LLL
                                 888
888
                                                  RRR
                                                              RRR
                       H
LLL
                                                                         TTT
                                                                                    LLL
                                                  RRR
                                                              RRR
                       III
LLL
                                                                         TIT
                                                                                    LLL
                                 888
                                             BBB
                                                              RRR
                                                  RRR
                       III
LLL
                                                                         TTT
                                                                                    LLL
                                 BBB
                                             BBB
                       III
                                                  RRR
                                                              RRR
LLL
                                                                         TIT
                                                                                    LLL
                                 III
                                                  RRRRRRRRRRR
LLL
                                                                         TTT
                                                                                    LLL
                                                  RRRRRRRRRRRR
LLL
                       111
                                                                         TIT
                                                                                    LLL
                                 BBBBBBBBBBBBB
                                                  RRRRRRRRRRRR
LLL
                       111
                                                                         TIT
                                                                                    LLL
                                 888
                                                  RRR
                                                        RRR
                                             BBB
LLL
                       111
                                                                         TTT
                                                                                    LLL
                                 BBB
                                             BBB
                                                  RRR
                                                        RRR
                       111
LLL
                                                                         TIT
                                                                                    LLL
                       ĬĬĬ
                                 888
                                                  RRR
                                                        RRR
LLL
                                             BBB
                                                                         TTT
                                                                                    LLL
                       III
                                 888
                                             BBB
                                                  RRR
LLL
                                                           RRR
                                                                         TTT
                                                                                    LLL
                       III
                                 888
                                             BBB
                                                  RRR
LLL
                                                           RRR
                                                                         TTT
                                                                                    LLL
LLL
                       111
                                 BBB
                                             BBB
                                                  RRR
                                                           RRR
                                                                         TIT
                                                                                    LLL
                                 LLLLLLLLLLLLLLL
                    1111111111
                                                  RRR
                                                              RRR
                                                                         TTT
                                                                                    LLLLLLLLLLLLL
LLLLLLLLLLLLLL
                    RRR
                                                              RRR
                                                                         TTT
                                                                                    LLLLLLLLLLLLLL
RRR
                                                              RRR
                    111111111
                                                                         III
                                                                                    LLLLLLLLLLLLLL
```

1

Sy

000000 000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	\$	VV		FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	•
11 11 11 11 11 11 11 11 11 11 11		\$					

E 13 OTS\$CVTFP_R9
Table of Contents 16-SEP-1984 00:23:47 VAX/VMS Macro V04-00 Convert Floating to Packed Page 0 HISTORY DECLARATIONS OTS\$CVTFP_R9 50 63 100 (2) (3) (4) ; Detailed Current Edit History

0T 111 12 13

44 45 46

* * * *

Page 1 (1)

```
1 .TITLE OTS$CVTFP_R9 Convert Floating to Packed
2 .IDENT /1-005/ ; File: OTSCVTFP.MAR Edit: PLL1005
3
4;
```

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F 13

ABSTRACT:

This module contains the routine that converts floating numbers to packed.

0000 37 : 0000 38 : VERSION: 1 0000 39 :

HISTORY:

AUTHOR: Marty Jack, 14-Mar-1979

MODIFIED BY:

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: Detailed Current Edit History ; Edit History for Version 1 of OTSCVTFP

0000 0000

1-001 - Original. MLJ 14-Mar-1979
1-002 - Make external references explicit. RKR 17-JULY-1979
1-003 - Change all references to FOR\$CNV_OUT_E to COB\$CNVOUT
RKR 27-SEPT-79
1-004 - Cosmetic changes. RKR 18-OCT-79
1-005 - Change source name to OTS\$ but retain old entry point name.
PLL 21-Jan-82 ŎŎŎŎ

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TO

Sy

DS DS LI OT

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_0

In Co Pa Sy Pa Sy Ps Cr As

Th 90 Th 22 8

--_\$ 19 Th

MA

0000

```
Convert Floating to Packed DECLARATIONS
                                                         16-SEP-1984 00:23:47 VAX/VMS Macro V04-00 6-SEP-1984 11:12:56 [LIBRTL.SRC]OTSCVTFP.MAR;1
                  63
64
65
       0000
                                  .SBTTL DECLARATIONS
       0000
                     INCLUDE FILES:
       0000
                  $DSCDEF
                     EXTERNAL SYMBOLS:
                                                                      Prevent undeclared symbols from being
                                                                    ; automatically global
                                  .EXTRN OTS$CNVOUT : E-format conversion .EXTRN LIB$STOP : Error halt .EXTRN OTS$_FATINTERR ; Fatal internal error code
       ŎŎŎŎ
       0000
       0000
       0000
                  80
81
82
83
84
85
       0000
                         MACROS:
       0000
                                 NONE
       0000
       0000
       0000
                        PSECT DECLARATIONS:
00000000
0000
0000
0000
                                                                   PIC, SHR, LONG, EXE, NOWRT, - USR, CON, REL, LCL, RD
                                  .PSECT _OTS$CODE
                  88
                  89
                  90
91
92
93
95
95
                         EQUATED SYMBOLS:
       0000
                                 NONE
       0000
       0000
       0000
                  96
97
       0000
                  96
97
98
                         OWN STORAGE:
       0000
                                 NONE
```

3 (3)

OTSSCVTFP_R9

80

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26

90 90

BO

0009

0000

000F

0012

156;

7E 7E 7E

: Address = space reserved

Data type = ASCII string

Class = static

; Length in bytes

Ťa

```
.SBTTL OTS$CVTFP_R9
          ŎŎŎŎ
                  101
                  102
                      FUNCTIONAL DESCRIPTION:
                  104
                               Converts a floating number to packed.
                  106
                        CALLING SEQUENCE:
                               JSB OTS$CVTFP_R9 (scale.rl.v, src.rf.r, dstlen.rl.v, dst.wp.r)
          0000
                               Arguments are passed in R6, R7, R8 and R9.
          0000
                        INPUT PARAMETERS:
          0000
          0000
                  114
          0000
                  115
                               SCALE.rl.v
                                                          The power of ten by which the internal
          0000
                  116
                                                          representation of the source must be
          0000
                  117
                                                          multiplied to scale the same as the
                  118
          0000
                                                          internal representation of the dest.
          0000
                               SRC.rf.r
                                                          The number to be converted
          0000
                  12123456789012345678901
11133456789012345678901
                               DSTLEN.rl.v
                                                          The number of digits in the destination
          0000
          0000
                        IMPLICIT INPUTS:
          0000
          0000
                               All of the trap bits in the PSL are assumed off.
          0000
          0000
                        OUTPUT PARAMETERS:
          0000
          0000
                               DST.wp.r
                                                          The place to store the converted number
          0000
          0000
                        IMPLICIT OUTPUTS:
          0000
                               NONE
                        FUNCTION VALUE:
          ŎŎŎŎ
          0000
                               1 = SUCCESS, 0 = FAILURE
          ŎŎŎŎ
          0000
                        SIDE EFFECTS:
          0000
          0000
                               Destroys registers RO through R9.
          0000
                  142
          0000
          0000
          0000
                  145
          0000
                      OTS$CVTFP R9::
                      COBSCVTFP_R9::
          0000
                  146
                  147
30
67
                                        #48,SP
(R7),(SP)
     C2
          0000
                               SUBL 2
                                                                   ; Allocate temp space
          0003
                  148
                               CVTFD
                                                                   : Get input number
                  149
          0006
                  150
          0006
                        Make a descriptor for the temporary string.
                  151
          0006
                  152
153
154
155
AE
01
          0006
                               PUSHAB
                                        8(SP)
```

#DSC\$K_CLASS_S,-(SP)
#DSC\$K_DTYPE_T,-(SP)

#38.-(5P)

MOVB

MOVB

MOVU

.END

005A

```
01
```

```
K 13
OTSSCVTFP R9
                                  Convert floating to Packed
                                                                               16-SEP-1984 00:23:47
                                                                                                      VAX/VMS Macro V04-00
                                                                                                                                    Page
Symbol table
                                                                               6-SEP-1984 11:12:56 [LIBRTL.SRC]OTSCVTFP.MAR:1
                                                                                                                                           (4)
COBSCVTFP R9
                                    0000000 RG
                                                    02
DSCSK_CLASS_S
DSCSK_DTYPE_T
LIBSSTOP
                                 = 00000001
                                 = 0000000E
                                                    00
                                    ******
                                                    ÕÕ
OTS$CNVOUT
                                    ......
                                                    ÖŽ
OTSSCVTFP R9
                                    00000000 RG
OTSS FATIRTERR
                                    ......
                                                     Psect synopsis!
PSECT name
                                   Allocation
                                                        PSECT No.
                                                                    Attributes
                                   00000000
  ABS
                                                  0.)
                                                              0.)
                                                                                                                       NOWRT NOVEC BYTE
                                                        00
                                                                    NOPIC
                                                                            USR
                                                                                   CON
                                                                                         ABS
                                                                                               LCL NOSHR NOEXE NORD
$ABS$
                                   00000000
                                                   0.)
                                                        01
                                                                    NOPIC
                                                              1.)
                                                                            USR
                                                                                   CON
                                                                                         ABS
                                                                                               LCL NOSHR
                                                                                                            EXE
                                                                                                                   RD
                                                                                                                         WRT NOVEC BYTE
                                                 90.)
_OTS$CODE
                                   0000005A
                                                        02 (
                                                              2.)
                                                                            USR
                                                                                   CON
                                                                                         REL
                                                                                               LCL
                                                                                                      SHR
                                                                                                            EXE
                                                                                                                   RD
                                                                                                                       NOWRT NOVEC LONG
                                                  Performance indicators
Phase
                           Page faults
                                           CPU Time
                                                           Elapsed Time
Initialization
                                           00:00:00.03
                                                           00:00:00.58
                                   112
                                           00:00:00.30
                                                           00:00:03.59
Command processing
                                   134
                                           00:00:01.10
                                                           00:00:05.75
Pass 1
                                   47
                                           00:00:00.11
                                                           00:00:00.85
Symbol table sort
                                                           00:00:00.91
Pass 2
                                           00:00:00.35
                                           00:00:00.01
                                                           00:00:00.01
Symbol table output
                                           00:00:00.01
Psect synopsis output
                                                           00:00:00.01
                                           00:00:00.00
                                                           00:00:00.00
Cross-reference output
Assembler run totals
                                           00:00:01.91
                                                           00:00:11.70
The working set limit was 900 pages.
8391 bytes (17 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 136 non-local and 2 local symbols.
187 source lines were read in Pass 1, producing 10 object records in Pass 2.
8 pages of virtual memory were used to define 7 macros.
                                                 Macro library statistics !
```

! Macro library statis

Macro Library name

Macros defined

_\$255\$DUA28:[SYSLIB]STARLET.MLB;2

4

190 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:OTSCVTFP/OBJ=OBJ\$:OTSCVTFP MSRC\$:OTSCVTFP/UPDATE=(ENH\$:OTSCVTFP)

0211 AH-BT13A-SE

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